CLAIMS

- 1. A percutaneous absorption preparation containing a compound having a melatonin receptor agonist activity, and one or more members selected from fatty acid esters, polyhydric alcohols and nonionic surfactants.
- 2. The percutaneous absorption preparation according to claim 1 containing a compound having a melatonin receptor agonist activity, and a fatty acid ester, a polyhydric alcohol and a nonionic surfactant.
- 3. The percutaneous absorption preparation according to claim 2, wherein the compound having a melatonin receptor agonist activity is a compound having a melatonin ML, receptor agonist activity.
- 4. The percutaneous absorption preparation according to claim 1, wherein the compound having a melatonin receptor agonist activity is a compound represented by the formula:

$$\begin{array}{c|c}
R^{2} \\
N \\
N \\
R^{1}
\end{array}$$

$$\begin{array}{c|c}
R^{1} \\
R^{3} \\
R^{3}
\end{array}$$

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wherein, R¹ represents an optionally substituted hydrocarbon group, an optionally substituted amino group or

an optionally substituted heterocyclic group;

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R² represents a hydrogen atom or an optionally substituted hydrocarbon group;

R³ represents a hydrogen atom, an optionally substituted hydrocarbon group or an optionally substituted heterocyclic group;

X represents CHR⁴, NR⁴, O or S in which R⁴ represents a hydrogen atom or an optionally substituted hydrocarbon group;

Y represents C, CH or N, provided that when X is CH_2 , Y is C or CH;

ring A represents an optionally substituted, 5- to 7membered oxygen-containing heterocyclic ring;

ring B represents an optionally substituted benzene ring; and

m represents an integer of 1 to 4; or a salt thereof.

5. The percutaneous absorption preparation according to claim 1, wherein the compound having a melatonin receptor agonist activity is a compound represented by the formula:

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wherein, R represents a C_{1-6} alkyl group.

- 6. The percutaneous absorption preparation according to claim 1, wherein the compound having a melatonin receptor agonist activity is (S)-N-[2-(1,6,7,8-tetrahydro-2H-indeno[5,4-b]] furan-8-yl)ethyl]propionamide.
- 7. The percutaneous absorption preparation according to claim 1, wherein the compound having a melatonin receptor agonist activity is (S)-N-[2-(1,6,7,8-tetrahydro-2H-indeno[5,4-b]furan-8-yl)ethyl]acetamide.
- 8. The percutaneous absorption preparation according to claim 1, wherein the fatty acid ester is an ester of a carboxylic acid having 6 to 22 carbon atoms and an alkyl alcohol having 1 to 12 carbon atoms.
- 9. The percutaneous absorption preparation according to claim 1, wherein the fatty acid ester is isopropyl myristate, isopropyl palmitate, butyl myristate, or diethyl sebacate.
- 10. The percutaneous absorption preparation according to claim 1, wherein the fatty acid ester is isopropyl myristate.
 - 11. The percutaneous absorption preparation according

to claim 1, wherein the polyhydric alcohol is ethylene glycol, propylene glycol, 1,3-butylene glycol, glycerin or polyethylene glycol.

- 12. The percutaneous absorption preparation according to claim 1, wherein the polyhydric alcohol is propyleneglycol.
 - 13. The percutaneous absorption preparation according to claim 1, wherein the polyhydric alcohol is polyethylene glycol.
- 10 14. The percutaneous absorption preparation according to claim 1, wherein the polyhydric alcohol is polyethylene glycol having a molecular weight of about 200 to about 1000.

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- 15. The percutaneous absorption preparation according to claim 1, wherein the nonionic surfactant is a fatty acid amide, a polyhydric alcohol fatty acid ester or a polyglycerol fatty acid ester.
- 16. The percutaneous absorption preparation according to claim 1, wherein the nonionic surfactant is a fatty acid amide.
- 20 17. The percutaneous absorption preparation according to claim 16, wherein the fatty acid amide is lauric diethanolamide or a compound including the same.
 - 18. The percutaneous absorption preparation according to claim 16, wherein the fatty acid amide is coconut fatty acid diethanol amide.

- 19. The percutaneous absorption preparation according to claim 1 containing (S)-N-[2-(1,6,7,8-tetrahydro-2H-indeno[5,4-b]furan-8-yl)ethyl]propionamide, isopropyl myristate, polyethyleneglycol and lauric diethanolamide.
- 20. The percutaneous absorption preparation according to claim 1 containing (S)-N-[2-(1,6,7,8-tetrahydro-2H-indeno[5,4-b]furan-8-yl)ethyl]acetamide, isopropyl myristate, polyethyleneglycol and lauric diethanolamide.

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- 21. The percutaneous absorption preparation according to claim 1 which is a skin plaster.
 - 22. The percutaneous absorption preparation according to claim 1 containing in a skin contact member, a compound having a melatonin receptor agonist activity and one or more members selected from fatty acid esters, polyhydric alcohols and nonionic surfactants.
 - 23. The percutaneous absorption preparation according to claim 22 containing in a skin contact member, a compound having a melatonin receptor agonist activity, and a fatty acid ester, a polyhydric alcohol and a nonionic surfactant.
- 24. The percutaneous absorption preparation according to claim 22 containing in a skin contact member, an about 1 to about 30% by weight of fatty acid ester with respect to a weight of the skin contact member.
- 25. The percutaneous absorption preparation according to claim 22 containing in a skin contact member, an about 1

to about 30% by weight of polyhydric alcohol with respect to a weight of the skin contact member.

26. The percutaneous absorption preparation according to claim 22 containing in a skin contact member, an about 1 to about 15% by weight of nonionic surfactant with respect to a weight of the skin contact member.

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- 27. The percutaneous absorption preparation according to claim 22 containing in a skin contact member, an adhesive agent.
- 28. The percutaneous absorption preparation according to claim 22, wherein the adhesive agent is an acrylic adhesive agent.
 - 29. The percutaneous absorption preparation according to claim 22 containing in a skin contact member, an about 0.01 to about 70% by weight of compound having a melatonin receptor agonist activity with respect to a weight of the skin contact member.
 - 30. The percutaneous absorption preparation according to claim 22 containing in a skin contact member, an about 5 to about 99% by weight of adhesive agent with respect to a weight of the skin contact member.
 - 31. The percutaneous absorption preparation according to claim 22, wherein a content of the compound having a melatonin receptor agonist activity per unit skin contact surface of a skin contact member is about 0.01 to about

 100 mg/cm^2 .

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- 32. The percutaneous absorption preparation according to claim 22 containing in a skin contact member, a filler.
- 33. The percutaneous absorption preparation according to claim 32, wherein the filler is silicon dioxide.
- 34. The percutaneous absorption preparation according to claim 1 which is to be affixed between about 6 hours before bedtime to just before bedtime.
- 35. The percutaneous absorption preparation according to claim 1 which maintains an effective concentration of the compound having a melatonin receptor agonist activity in blood for about 6 hours to about 12 hours.
- 36. The percutaneous absorption preparation according to claim 1 which maintains an effective concentration of the compound having a melatonin receptor agonist activity in blood until about 1 to about 2 hours before waking up.
- 37. The percutaneous absorption preparation according to claim 1, wherein an effective blood concentration of the compound having a melatonin receptor agonist activity exhibits a one peak pattern within 12 hours after administration.
- 38. The percutaneous absorption preparation according to claim 37, wherein a peak of the effective blood concentration of the compound having a melatonin receptor agonist activity appears within about 10 hours after

administration.

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- 39. A preventive and therapeutic method of diseases related to melatonin, characterized by administrating a percutaneous absorption preparation which contains a compound having a melatonin receptor agonist activity, and one or more members selected from fatty acid esters, polyhydric alcohols and nonionic surfactants.
- 40. A percutaneous absorption method of a compound having a melatonin receptor agonist activity, wherein the percutaneous absorption preparation contains a compound having a melatonin receptor agonist activity and one or more members selected from fatty acid esters, polyhydric alcohols and nonionic surfactants.
- 41. A use of one or more members selected from fatty

 15 acid esters, polyhydric alcohols and nonionic surfactants

 for achieving percutaneous absorption of a compound having

 a melatonin receptor agonist activity.